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a motor rotor having salient poles of metal magnetic material, which is highly resistant to corrosion, each of said salient poles being a protrusion portion of unitary formed rotating body;

a motor stator having magnetic poles, said stator being covered by synthetic resin material having a surface positioned radially inwardly of an inner circumferential surface of said stator, which is highly resistant to corrosion;

wherein said salient poles of the motor rotor are attracted to rotate by magnetic forces generated by said poles of said stator.

2. (Amended) A gas transfer machine according to claim 1, wherein said stator is embedded in a molded body of said resin material.

3. (Amended) A gas transfer machine according to claim 1, wherein said resin material comprises a can of synthetic resin or nonconductive material.

4. (Amended) A gas transfer machine according to claim 1, wherein said metal magnetic material comprises a magnetic alloy of iron and nickel.

5. (Amended) A gas transfer machine according to claim 1, wherein said metal magnetic material comprises permalloy.

7. (Amended) A gas transfer machine according to claim 1, wherein said resin material highly resistant to corrosion comprises a can of synthetic resin or nonconductive material.

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Please ADD the following new claims:

B' 3
11. (New) A gas transfer machine for transferring a gas including a corrosive gas, comprising:

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a pump rotor mounted on a rotatable shaft for transferring a gas including a corrosive gas; a reluctance-type motor for rotating said rotatable shaft about its own axis directly coupled thereto, said pump rotor and said motor being disposed in a housing;

B' 5
a motor rotor having salient poles of metal magnetic material, which is highly resistant to corrosion, each of said salient poles being a protrusion portion of unitary formed rotating body, each of said salient poles having a permanent magnet enclosed within said protrusion portion of said unitary formed rotating body;

B' 6
a motor stator having magnetic poles, said stator being covered by synthetic resin material having a surface positioned radially inwardly of an inner circumferential surface of said stator, which is highly resistant to corrosion;

B' 7
wherein said salient poles of the motor rotor are attracted to rotate by magnetic forces generated by said poles of said stator.

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12. (New) A gas transfer machine according to claim 9, wherein said stator is embedded in a molded body of said resin material.

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13. (New) A gas transfer machine according to claim 9, wherein said resin material comprises a can of synthetic resin or nonconductive material.
14. (New) A gas transfer machine according to claim 9, wherein said metal magnetic material comprises an alloy of iron and nickel.
15. (New) A gas transfer machine according to claim 9, wherein said metal magnetic material comprises permalloy.
16. (New) A gas transfer machine according to claim 9, wherein said resin material highly resistant to corrosion comprises a can of synthetic resin or nonconductive material.